

PROGRAM OF PARALLEL SESSIONS
DESY Theory Workshop, September 27 – 30, 2011
“Cosmology Meets Particle Physics - Ideas & Measurements”
Thursday, September 29, 2011

Session 1A: Particle Phenomenology
Bldg. 5, Main Auditorium – Chair: M. Krämer

- 14:00–14:20 **I.1 Direct stau production at hadron colliders in cosmologically motivated scenarios**
Lindert, Jonas (MPI Munich)
- 14:20–14:40 **I.2 Knotted strings and leptonic flavour structure**
Leser, Philipp (Dortmund)
- 14:40–15:00 **I.3 Production of the Exotic 1^- Hadrons $\phi(2170)$, $X(4260)$ and $Y_b(10890)$ at the LHC and Tevatron via the Drell-Yan Mechanism**
Wang, Wei (DESY)
- 15:00–15:20 **I.4 Electroweak constraints on non-minimal UED and split UED and implication for the KK mass spectrum**
Flacke, Thomas (Würzburg)
- 15:20–15:40 **I.5 Non-diagonal current correlators with two different masses up to three-loop order**
Hoff, Jens (Karlsruhe)
- 15:40–16:00 **I.6 Subleading-N improved Parton showers**
Plätzer, Simon (DESY)
- 16:00–16:20 **I.7 Numerical evaluation of QCD oneloop amplitudes**
Biedermann, Benedict (HU Berlin)
- 16:20–16:40 **COFFEE BREAK (Foyer buildg. 1)**

Session 1B: Particle Phenomenology
Bldg. 5, Main Auditorium – Chair: T. Mannel

- 16:40–17:00 **I.8 Threshold resummation for squark- and gluino hadroproduction**
Breensing, Silja Christine (DESY)
- 17:00–17:20 **I.9 Local CP-violation in quark gluon plasma: a lattice study**
Kalaydzhyan, Tigran (DESY)

- 17:20–17:40 **I.10 Simultaneous decoupling of bottom and charm quarks**
Höschele, Maik (Karlsruhe)
- 17:40–18:00 **I.11 Flavour issues for a heavy scalar spectra with a low gluino mass: the G2-MSSM case**
Velasco-Sevilla, Liliana (Cinvestav)
- 18:00–18:20 **I.12 Quasi-stable neutralinos at the LHC**
Hajer, Jan (DESY)
- 18:20–18:40 **I.13 Higgs boson production in gluon fusion to NNLO in the MSSM**
Zerf, Nikolai (Karlsruhe)
- 18:40–19:00 **I.14 CP-mirror Extension of Standard Model in $SU(3) \times SU(2)_L \times SU(2)_R \times U(1)_I$**
Satriawan, Mirza (Gadjah Mada University)

Session 2: Cosmology & Astroparticle Physics
- Cosmic Rays -

Bldg. 2a Room: Sem. 2 – Chair: L. Covi

- 14:00–14:20 **II.1 Diffuse Galactic Gamma-rays at intermediate and high Latitudes, Constraints on ISM properties and DM**
Tavakoli, Maryam (SISSA)
- 14:20–14:40 **II.2 Cosmic ray-DM scattering**
Ubaldi, Lorenzo (Bonn)
- 14:40–15:00 **II.3 Radio data and synchrotron emission in consistent cosmic ray models**
Bringmann, Torsten (Hamburg)
- 15:00–15:20 **II.4 Solar Modulation, Fermi, PAMELA and DM searches**
De Boer, Wim (KIT)
- 15:20–15:40 **II.5 Sharp gamma-ray spectral features in IDMS**
Calore, Francesca (Hamburg)
- 15:40–16:00 **II.6 Status of the AMS-02 detector on the ISS**
Heil, Melanie (KIT)
- 16:00–16:20 **II.7 UHE Neutrinos and the Glashow resonance**
Watanabe, Atsushi (Niigata)
- 16:20–16:40 **COFFEE BREAK (Foyer buildg. 1)**

Session 2B: Cosmology & Astroparticle Physics
- Cosmic Structure and Evolution -

Bldg. 2a Room: Sem. 2 – Chair: D. Schwarz

- 16:40–17:00 **II.8 How sensitive is the CMB to a single lens?**
Rathaus, Ben (Tel Aviv)
- 17:00–17:20 **II.9 Primordial decays and non-Gaussianities**
Lepidi, Angela (LMU Munich)
- 17:20–17:40 **II.10 The matter bispectrum in the Lagrangian framework**
Rampf, Cornelius (RWTH Aachen)
- 17:40–18:00 **II.11 A fitting formula for the effects of massive neutrinos**
Boriero, Daniel (UNICAMP/RWTH Aachen)
- 18:00–18:20 **II.12 Dark goo: bulk viscosity as an alternative to DE**
Gagnon, Jean-Sebastien (Darmstadt)
- 18:20–18:40 **II.13 Bulk Viscous Universes**
Velten, Hermano (Bielefeld)

Session 3 A: Strings & Mathematical Physics
Bldg. 1, Room: Sem. 1 – Chair: M. Zagermann

- 14:00–14:20 **III.1 Massive Abelian Gauge Symmetries and Fluxes in F-Theory**
Kerstan, Max (Heidelberg)
- 14:20–14:40 **III.2 The problematic backreaction of SUSY-Breaking branes**
Junghans, Daniel (Hannover)
- 14:40–15:00 **III.3 A sufficient condition for de Sitter vacua in type IIB string theory**
Rummel, Markus (Hamburg)
- 15:00–15:20 **III.4 The massless string spectrum on $AdS_3 \times S^3$ from the supergroup**
Gerigk, Sebastian (ETH Zurich)
- 15:20–15:40 **III.5 Semi-Classical Charged Black Holes**
Gautason, Fridrik F. (Hannover)
- 15:40–16:00 **III.6 Chirality inducing G4 fluxes in F-theory compactifications**
Krause, Sven (Heidelberg)
- 16:00–16:20 **III.7 Experimental tests of multimetric gravity – gravitational waves and the cosmos**
Hohmann, Manuel (Hamburg)
- 16:20–16:40 **COFFEE BREAK (Foyer buildg. 1)**

Session 3B: Strings & Mathematical Physics
Bldg. 1, Room: Sem. 1 – Chair: M. Zagermann

- 16:40–17:00 **III.8 Dilaton gravity at the brane with general matter-dilaton coupling**
Konikowska, Dominika (Würzburg)
- 17:00–17:20 **III.9 f(T) gravity models**
Karami, Kayoomars/Abdolmaleki, Asrin (Kurdistan U.)
- 17:20–17:40 **III.10 A common framework for Minimal length and Doubly Special relativity**
Panes, Boris (Hamburg)
- 17:40–18:00 **III.11 Local CP-violation in quark gluon plasma: a holographic study**
Kalaydzhyan, Tigran (DESY)